Washington Animal Disease Diagnostic Lab

P.O. Box 647034
Pullman, WA 99164-7034
Telephone : (509) 335-9696
Fax : (509) 335-7424

Pet Food Prod Safety Alln

Case#: 2010-4806
Report Date: 05/10/10

Species: Species Not Reported

Age:
Sex: U

Final Report:

Bacteriology- Reported on 05/10/10 Authorized by Lindsay Oaks, Section Head

Feed Culture SOP: 303.1.04.07.15

Animal	Specimen	Result	Isolate
unl A	Specimen	No Salmonella sp isolated	
unl B	Specimen	No Salmonella sp isolated	
unl C	Specimen	No Salmonella sp isolated	

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Pet Food Prod Safety Alln

Case#: 2010-7508
Report Date: 07/07/10

Species: Species Not Reported

Age:
Sex: U

Final Report:

Toxicology- Reported on 07/07/10 Authorized by Patricia Talcott, Section Head

Toxicology SOP: Tested at Subcontractor Lab

Animal	Specimen	Result
Eukanuba Lg breed puppy	Feed	See Attached Report

Previously reported results:

Bacteriology- Last reported on 07/02/10 Authorized by Lindsay Oaks, Section Head

Feed Culture SOP: 303.1.04.07.15

Animal	Specimen	Result	Isolate
Comp Iams/Euk Lg Breed Ad form	Feed	No Salmonella sp isolated	
Eukanuba Lg breed puppy	Feed	No Salmonella sp isolated	
Iams puppy biscuits 21Nov10	Feed	No Salmonella sp isolated	

UI Analytical Sciences Laboratory
Certificate of Analysis

Case ID: VJUN10-097

Client Sample ID: Eukanuba large breed Puppy Formula

Sample Type: As Received

UIASL Sample ID: V1002415 Species: NA Preservation: None

Macro/Micro Trace Element Screen **Method: ICP -- Nitric Digest**

	Results (µg/g)	RL	Adult Approx. Ref. Range
Arsenic	< 4	4.0	—
Barium	5.8	0.10	—
Calcium	17000	0.50	—
Cadmium	0.16	0.10	—
Cobalt	0.82	0.030	—
Chromium	1.4	0.50	—
Copper	21	0.10	—
Iron	360	1.0	—
Potassium	8900	10	—
Magnesium	1500	0.050	—
Manganese	64	0.050	—
Molybdenum	1.0	0.50	—
Sodium	3200	20	—
Phosphorus	12000	5.0	—
Lead	< 1	1.0	—
Sulfur	3900	15	—
Zinc	240	0.20	—

Comment:

ND = Not Detected NA = Not Applicable RL = Reporting Limit QNS = Quantity Not Sufficient ★ = Outside Reference Range

UI Analytical Sciences Laboratory
Certificate of Analysis

Case ID: VJUN10-097

Client Sample ID: Iams puppy biscuits
Lot:21 Nov 10

Sample Type: As Received

UIASL Sample ID: V1002416 Species: NA Preservation: None

Macro/Micro Trace Element Screen **Method: ICP -- Nitric Digest**

	Results (µg/g)	RL	Adult Approx. Ref. Range
Arsenic	< 4	4.0	—
Barium	8.5	0.10	—
Calcium	18000	0.50	—
Cadmium	< 0.1	0.10	—
Cobalt	0.97	0.030	—
Chromium	1.4	0.50	—
Copper	25	0.10	—
Iron	350	1.0	—
Potassium	8200	10	—
Magnesium	1900	0.050	—
Manganese	75	0.050	—
Molybdenum	1.8	0.50	—
Sodium	1800	20	—
Phosphorus	13000	5.0	—
Lead	< 1	1.0	—
Sulfur	4500	15	—
Zinc	220	0.20	—

Comment:

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UI Analytical Sciences Laboratory
Certificate of Analysis

Case ID: VJUN10-097

Client Sample ID: **Iams indoor weight & hairball care Lot: 01 Sep 11**

Sample Type: As Received

UIASL Sample ID: V1002417 Species: NA Preservation: None

Macro/Micro Trace Element Screen **Method: ICP -- Nitric Digest**

	Results (µg/g)	RL	Adult Approx. Ref. Range
Arsenic	< 4	4.0	—
Barium	6.6	0.10	—
Calcium	12000	0.50	—
Cadmium	< 0.1	0.10	—
Cobalt	1.0	0.030	—
Chromium	1.5	0.50	—
Copper	28	0.10	—
Iron	250	1.0	—
Potassium	10000	10	—
Magnesium	1200	0.050	—
Manganese	86	0.050	—
Molybdenum	1.3	0.50	—
Sodium	5900	20	—
Phosphorus	11000	5.0	—
Lead	< 1	1.0	—
Sulfur	8600	15	—
Zinc	270	0.20	—

Comment:

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UI Analytical Sciences Laboratory
Certificate of Analysis

Case ID: VJUN10-097

Client Sample ID: **Composite of lams/Eukanuba Large breed adult form**

Sample Type: As Received

UIASL Sample ID: V1002418 Species: NA Preservation: None

Macro/Micro Trace Element Screen **Method: ICP -- Nitric Digest**

	Results (µg/g)	RL	Adult Approx. Ref. Range
Arsenic	< 4	4.0	—
Barium	3.9	0.10	—
Calcium	14000	0.50	—
Cadmium	< 0.1	0.10	—
Cobalt	0.84	0.030	—
Chromium	1.1	0.50	—
Copper	28	0.10	—
Iron	460	1.0	—
Potassium	9200	10	—
Magnesium	1300	0.050	—
Manganese	72	0.050	—
Molybdenum	0.86	0.50	—
Sodium	3800	20	—
Phosphorus	10000	5.0	—
Lead	< 1	1.0	—
Sulfur	4200	15	—
Zinc	280	0.20	—

Comment:

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UI Analytical Sciences Laboratory
Certificate of Analysis

Case ID: VJUN10-097

Client Sample ID: Iams Filets w/skipjack tuna Lot: 12/20/12

Sample Type: As Received

UIASL Sample ID: V1002419 Species: NA Preservation: None

Macro/Micro Trace Element Screen **Method: ICP -- Nitric Digest**

	Results (µg/g)	RL	Adult Approx. Ref. Range
Arsenic	< 4	4.0	—
Barium	< 0.1	0.10	—
Calcium	1800	0.50	—
Cadmium	< 0.1	0.10	—
Cobalt	1.3	0.030	—
Chromium	< 0.5	0.50	—
Copper	6.5	0.10	—
Iron	47	1.0	—
Potassium	2200	10	—
Magnesium	140	0.050	—
Manganese	7.7	0.050	—
Molybdenum	< 0.5	0.50	—
Sodium	2000	20	—
Phosphorus	2000	5.0	—
Lead	2.6	1.0	—
Sulfur	1500	15	—
Zinc	27	0.20	—

Comment:

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UI Analytical Sciences Laboratory
Certificate of Analysis

Case ID: VJUN10-097

Client Sample ID: **Iams Pate w/lamb & rice Lot 1/20/12**

Sample Type: As Received

UIASL Sample ID: V1002420 Species: NA Preservation: None

Macro/Micro Trace Element Screen **Method: ICP -- Nitric Digest**

	Results (µg/g)	RL	Adult Approx. Ref. Range
Arsenic	< 4	4.0	—
Barium	1.4	0.10	—
Calcium	5500	0.50	—
Cadmium	< 0.1	0.10	—
Cobalt	0.68	0.030	—
Chromium	0.77	0.50	—
Copper	25	0.10	—
Iron	100	1.0	—
Potassium	3800	10	—
Magnesium	280	0.050	—
Manganese	15	0.050	—
Molybdenum	0.70	0.50	—
Sodium	1300	20	—
Phosphorus	4000	5.0	—
Lead	< 1	1.0	—
Sulfur	2100	15	—
Zinc	53	0.20	—

Comment:

Note: Any included reference ranges are only guidelines and the analytical results need to be interpreted in conjunction with management and dietary factors, as well as with clinical and/or postmortem observations. Reference ranges can vary significantly between individuals or groups of animals from different ranges and habitats or on different diets.

Note: Serum concentrations of some elements (e.g., zinc, iron, phosphorus, magnesium) may be artificially elevated due to hemolysis or leaching from the red blood cells. Zinc can leach from some rubber blood collection tube stoppers. The sample should be spun and the serum separated from the clot prior to shipping. We recommend collecting blood in plastic vials or royal blue top vaccutainer tubes without heparin (for trace element analysis) for submission of samples to be analyzed for zinc.

Samples will be discarded one month after date of final report unless otherwise requested.

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